



Indiana Department of Environmental Management  
Office of Water Quality  
Wetlands Section

**Publication Date:**  
February 23, 2009

**IDEM ID Number:**  
2009-002-29-EMP-A

**Closing Date:**  
March 16, 2009

**Corps of Engineers ID Number:**  
LRL-2008-01381-jjh

## PUBLIC NOTICE

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**To all interested parties:**

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

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- |                      |  |                  |  |
|----------------------|--|------------------|--|
| <b>1. Applicant:</b> | Mr. Mike McBride<br>City of Carmel<br>One Civic Square<br>Carmel, IN 46032 | <b>2. Agent:</b> | Mr. Brad Eckerle<br>Crossroad Engineers<br>3417 Sherman Drive<br>Beech Grove, IN 46107 |
|----------------------|--|------------------|--|
- 3. Project location:** Section 27, Township 18 North, Range 3 East, Carmel USGS Quad Map  
Project is located along 131<sup>st</sup> Street starting just west of Ditch Road and continuing to just west of Springmill Road, in Carmel, Hamilton County
- 4. Affected waterbody:** Almond Ditch and Henley Creek
- 5. Project Description:** The applicant proposes to replace the existing 32.5' x 8' x 6' corrugated metal pipe culvert carrying 131st Street over Almond Ditch with a 102' x 20' x 9'6" concrete three-sided arch-top culvert. In order to install the new culvert crossing, approximately 73' of Almond Ditch along the north side of 131st Street will be relocated a maximum of 20' to the west from its current location (starting approximately 36' upstream from the existing culvert) to accommodate road construction. Approximately 63' of new open channel will be constructed, although it will be piped within the new culvert. The applicant also proposes to replace the existing 24' x 12' x 6' three-sided box culvert carrying 131st Street over Henley Creek with an 81' x 28' x 9'6" three-sided box culvert. Riprap will be placed at the inlet, outlet, and along the stream bottoms of Almond Ditch and Henley Creek; riprap will be sumped one foot below the stream bottom during installation to allow for a natural bottom to form within the streams. Temporary pump-arounds will be used to install both new stream crossings. A 0.07 acre Class I non-forested exempt isolated wetland will also be impacted by the project. Impacts are proposed to facilitate the widening of 131st Street and improve infrastructure and to install roundabouts at Clay Center Road and Ditch Road.

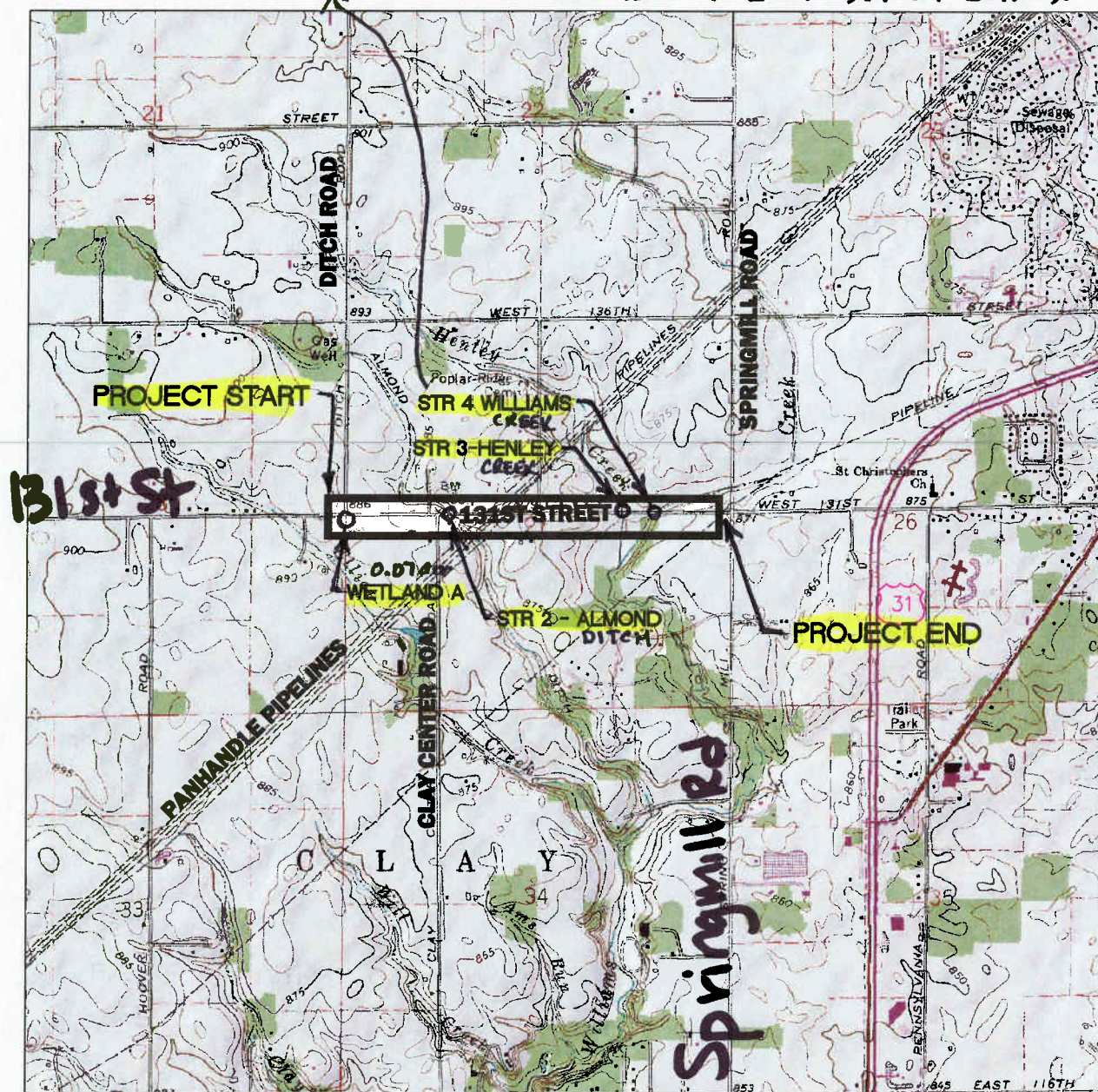
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- Comment period:** Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.
- Public Hearing:** Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

**Questions?**

Additional information may be obtained from Ms. Liz Pelloso, Project Manager, at 317-233-2482. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management  
100 North Senate Avenue  
MC65-42 WQS IGCN 1255  
Indianapolis, Indiana 46204-2251  
FAX: 317/232-8406

note: Williams Creek culvert previously permitted  
 SEE IDEM # 2008-361-29-EMP-X



PREPARED BY:



Transportation &  
 Development Consultants  
 3417 SHERMAN DR. BEECH GROVE, IN 46107 (317) 780-1555

## Carmel Project 06-08 131st Street - Ditch Rd. to Spring Mill Rd.

### PROJECT VICINITY MAP Carmel Quadrangle

APPLICANT: CITY OF CARMEL  
 AGENT: CROSSROAD ENGINEERS, P.C.  
 DATE: NOVEMBER, 2007  
 SCALE: 1:24000





## DESIGN DATA

LIVE LOAD: HS20-44 & Alternate Military Loading  
In accordance with 2002 AASHTO Specifications  
and subsequent Interim through 2006.

## DESIGN STRENGTH:

Class 'C' Concrete:  $f'_c = 4000$  psi  
Class 'A' Concrete:  $f'_c = 3500$  psi  
Class 'B' Concrete:  $f'_c = 3000$  psi  
Reinforcing Steel:  $f_y = 60,000$  psi

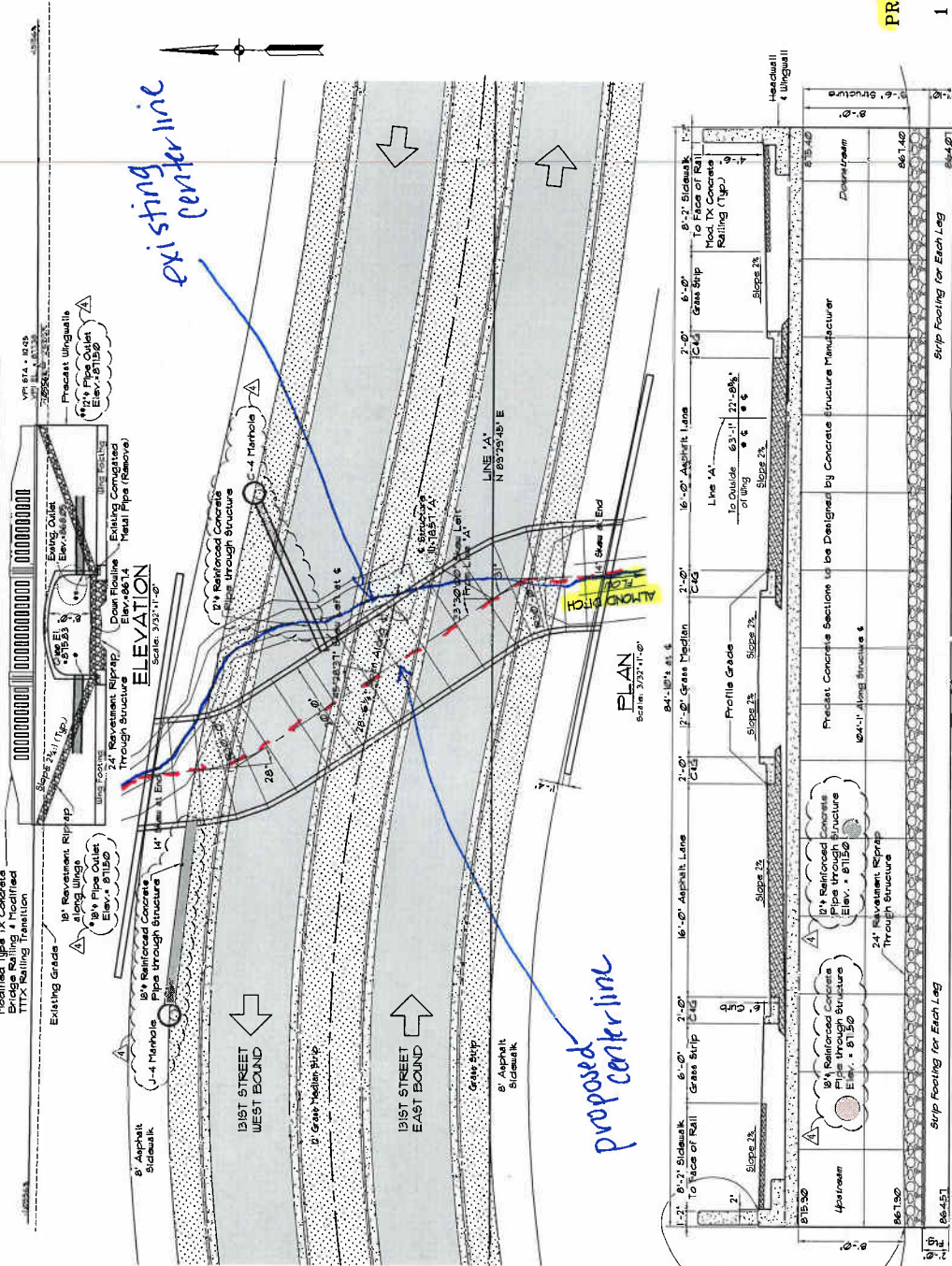
## GENERAL NOTES

Equivalent Fluid Pressure behind Walls shall be actual anticipated but not less than 40 per / FL

All Reinforcing Steel in the Wingwalls & Concrete Railing shall be epoxy coated.

The Contractor shall install a bronze Benchmark supplied by the County Surveyor's Office on the Barrier Rail as shown. The Elevation is to be stamped on the Benchmark. The Contractor shall submit a letter to the County Surveyor's Office Verifying the Elevation was established by a Licensed Surveyor

All Roadway Items, Sidewalk, & Colored Concrete Included with the Road Plans.



## TYPICAL SECTION

[illegible]

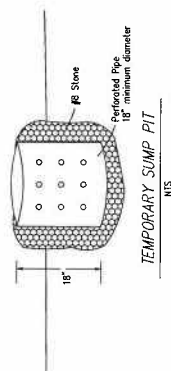
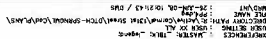
## PRECAST REINFORCED CONCRETE THREE-SIDED

ARCH TOP STRUCTURE (20'-0" x 9'-6")

1 SPAN: 28'-6 1/4" SKEW: 45°28'37" LEFT

ON 131ST STREET OVER ALMOND DITCH





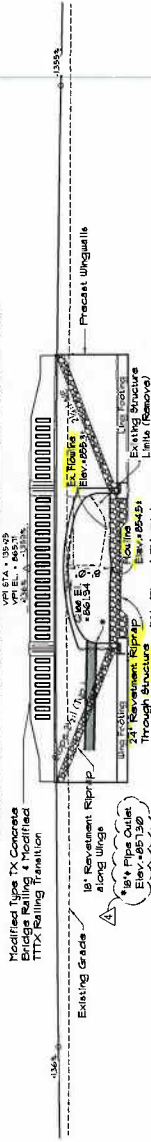
PRECAST REINFORCED CONCRETE THREE-SIDED  
ARCH TOP STRUCTURE (20'-0" x 9'-6")  
1 SPAN: 28'-6 1/4" SKEW: 45°28'37" LEFT  
ON 131ST STREET OVER ALMOND DITCH

[illegible]

# STRUCTURE TO BE BUILT ON A 180' CREST VERTICAL CURVE

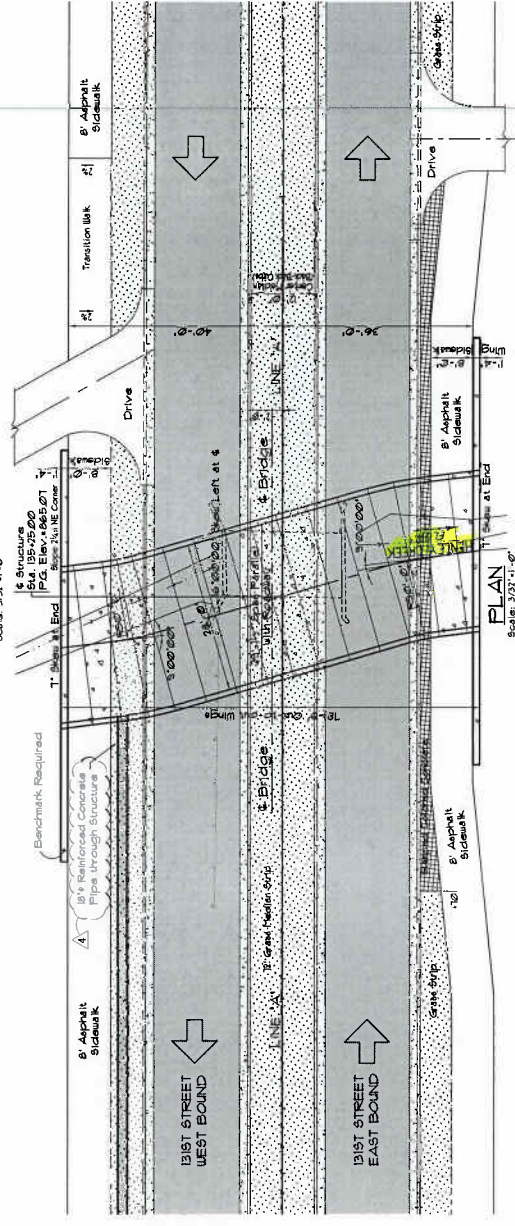
Modified Type TX Concrete  
Bridge Rating: 100  
TXX Rating: 100

VI E.A. 13-03  
VI E.A. 13-03



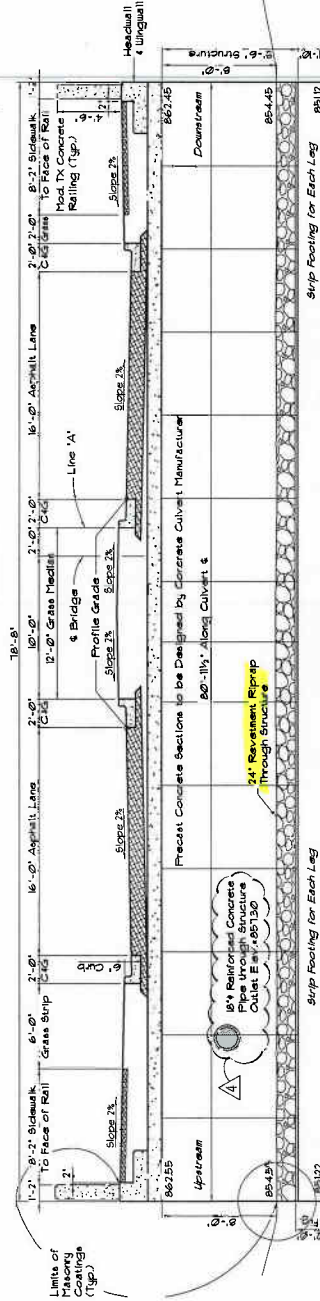
## ELEVATION

Scale: 3/32" = 1'-0"



## PLAN

Scale: 3/32" = 1'-0"



## TYPICAL SECTION

Scale: 1/4" = 1'-0"

## DESIGN DATA

LIVE LOAD: HS20-44 & Alternate Military Loading  
in accordance with 2002 AASHTO Specifications  
and subsequent interim through 2006.  
DEAD LOAD: Actual weight plus 35 lbs/sq.ft. for  
future wearing surface.

## DESIGN REQUIREMENTS

- Class 'A' Concrete: f<sub>c</sub> = 4,000 psi
- Class 'A' Concrete: f<sub>c</sub> = 3,500 psi
- Class 'B' Concrete: f<sub>c</sub> = 3,000 psi
- Reinforcing Steel: f<sub>y</sub> = 60,000 psi

## GENERAL NOTES

- Exposure Field Pressure (exposed walls) shall be actual anticipated but not less than 40 psf / ft.
- All Reinforcing Steel in the Uppercase & Concrete Railing shall be epoxy coated.
- The Contractor shall install a bronze Benchmark supplied by the County Surveyor's Office on the Barrier Rail as shown. The Benchmark is to be stamped on the Benchmark. The Contractor shall submit a letter to the County Surveyor's Office verifying the Elevation was established by a Licensed Surveyor.
- All Roadway Items, Sidewalk, & Colored Concrete Included with the Road Plans.

## PRECAST REINFORCED CONCRETE THREE-SIDED

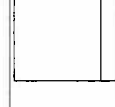
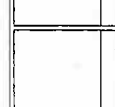
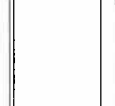
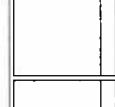
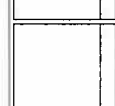
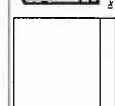
ARCH TOP STRUCTURE (28'-0" x 9'-6")

1 SPAN: 29'-1 1/2" SKEW: 16° LEFT

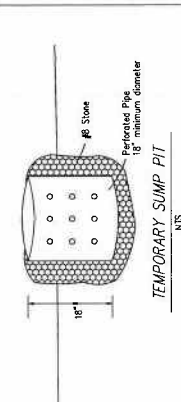
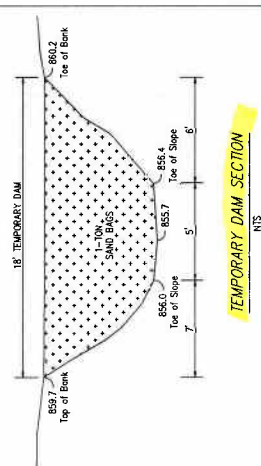
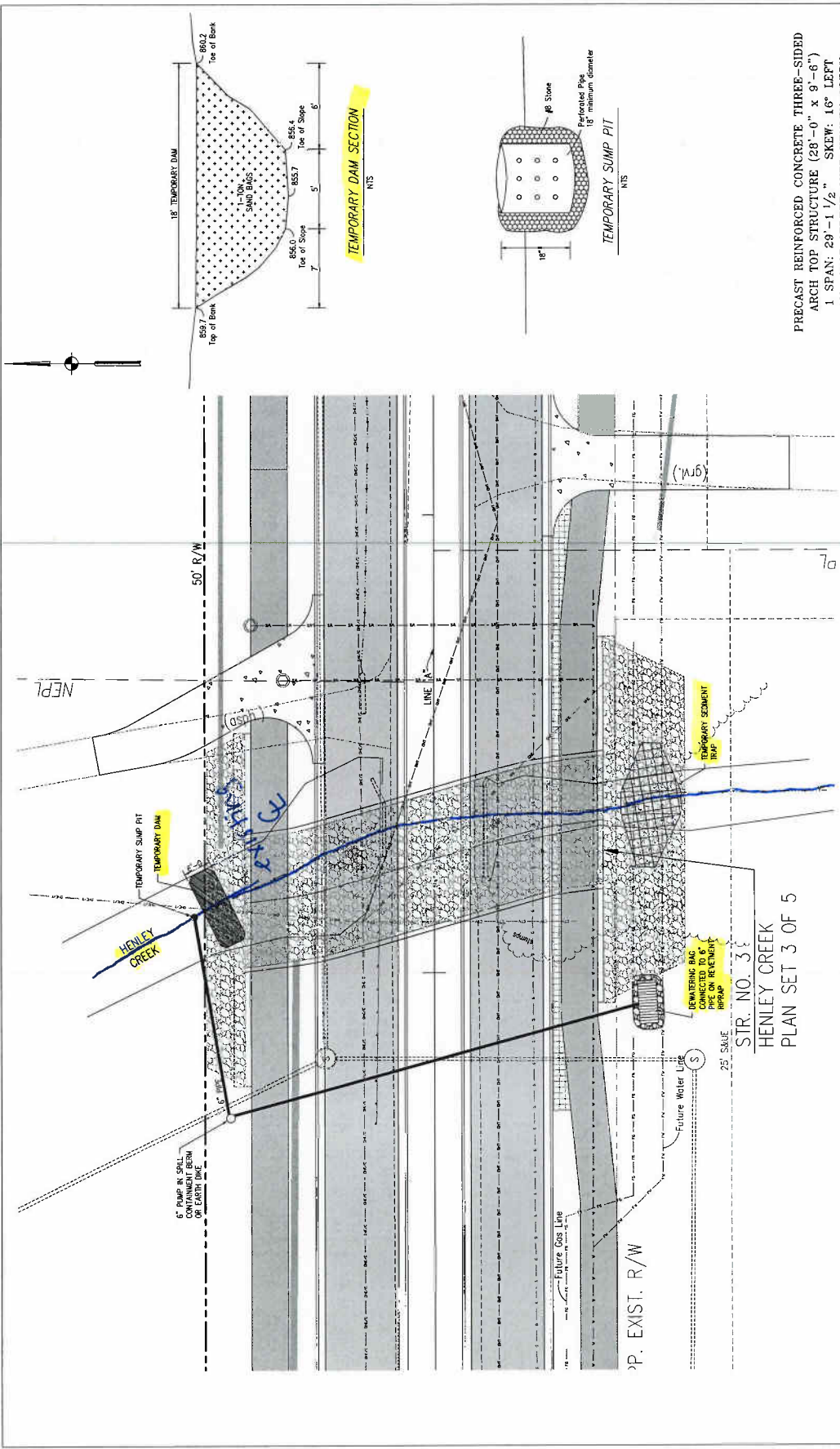
ON 131ST STREET OVER HENLEY CREEK

CITY OF CARMEL	HORIZONTAL SCALE	BRIDGE FILE
131ST STREET	VERTICAL SCALE	BRIDGE FILE
DITCH ROAD TO SPRING MILL ROAD	DESIGN SCALE	BRIDGE FILE
GENERAL PLAN	SHEET BOOK	BRIDGE FILE
BRIDGE 544 OVER HENLEY CREEK	CONTRACT	BRIDGE FILE

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: BDC	DRAWN: BDC	CHECKED: BDC
CHECKED: BDC		







PRECAST REINFORCED CONCRETE THREE-SIDED  
 ARCH TOP STRUCTURE (28'-0" x 9'-6")  
 1 SPAN: 29'-1 1/2" SKEW: 16° LEFT  
 ON 131ST STREET OVER HENLEY CREEK

CITY OF CARMEL 131ST STREET DITCH RD. TO SPRING MILL RD. TEMPORARY PUMP AROUND BRIDGE 544 OVER HENLEY DITCH		RECOMMENDED FOR APPROVAL DATE: 1-2-06 DESIGNED: BE CHECKED: BEG DATE: 1-2-06	PROJECT NO. 05-04
HORIZONTAL SCALE 1" = 10'	VERTICAL SCALE 1" = 10'	BRIDGE 544 ELEVATION 114.14 114.14 114.14	BRIDGE 544 ELEVATION 114.14 114.14 114.14



REFERENCES: 1. "Standard Specifications for Highway Construction," American Road & Builders Builders Association, Inc., 1994.  
 2. "California Department of Transportation," California Department of Transportation, 1994.  
 3. "California Department of Transportation," California Department of Transportation, 1994.